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22. (Amended) The method of claim 19, further comprising the step of modifying the voxel-based virtual object based on the position of the virtual tool.

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23. (Amended) The method of claim 19, further comprising calculating an interaction force among the constraint geometry, the voxel-based virtual object, and the virtual tool in response to the step of determining the position of the virtual tool.

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24. (Amended) The method of claim 19, further comprising the steps of selecting a modification mode for the virtual tool, and modifying the voxel-based virtual object in response to the modification mode and the position of the virtual tool.